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JUL 0 8 2011 w | Company of the Scripps Research Institute
           <110> Barbas III, Carlos F.
                 Chung, Junho
           <120> INTEGRIN ALPHA.IIb.BETA.3 SPECIFIC ANTIBODIES AND PEPTIDES
           <130> TSRI 1019.1 US
           <140> US 10/581,431
           <141> 2004-12-03
           <150> US 60/526,859
           <151> 2003-12-03
           <150> PCT/US2004/040381
           <151> 2004-12-03
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           <220>
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            Gly Ser Phe Gly Arg Gly Asp Ile Arg Asn Gly
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Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser,
Thr, Val, Trp, Tyr
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Val Gly Xaa Xaa Xaa Arg Ala Asp Xaa Xaa Xaa Tyr Ala Met Asp
                                      10
                                                           15
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Val
<210> 4
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<400> 4
Val Val Cys Arg Ala Asp Lys Arg Cys
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<223> HCDR3 consensus part
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Val Trp Cys Arg Ala Asp Arg Arg Cys
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<210> 6
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<220>
<223> HCDR3 consensus part
<400> 6
Val Trp Cys Arg Ala Asp Lys Arg Cys
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<210> 7
<211> 9
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<212> PRT
<213> Artificial Sequence
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<223> HCDR3 consensus part
<400> 7
Val Val Cys Arg Ala Asp Arg Arg Cys
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<210> 8
<211> 16
<212> PRT
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<400> 8
Val Arg Val Val Cys Arg Ala Asp Arg Arg Cys Tyr Ala Met Asp
                                                            15
                                       10
  1
Val
<210> 9
<211> 72
<212> DNA
<213> Artificial Sequence
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<223> primer neo-rad-f
<220>
<221> misc_feature
<222> (25, 26, 28, 29, 31, 32, 43, 44, 46, 47, 49, 50)
<223> n represents a, g, c, or t
<400> 9
gtgtattact gtgcgagagt ggggnnknnk nnkcgtgccg acnnknnknn ktacgctatg
                                                                          60
                                                                          72
gacgtctggg gc
<210> 10
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<213> Artificial Sequence
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<223> primer dpseq
<400> 10
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21
agaagcgtag tccggaacgt c
<210> 11
<211> 57
<212> DNA
<213> Artificial Sequence
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<223> primer DP-47N-term
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gctgcccaac cagccatggc cgaggtgcag ctgttggagt ctgggggagg cttggta
                                                                        57
<210> 12
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<223> primer DP-47FR3
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cactetegea cagtaataca eggeegtgte eteggetet
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<211> 21
<212> DNA
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<223> primer lead-VH
<400> 13
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ggccatggct ggttgggcag c
<210> 14
<211> 39
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<223> primer dp-EX
<400> 14
gaggaggagg aggaggaga aagcgtagtc cggaacgtc
                                                                         39
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<211> 24

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<223> primer ompseq
<400> 15
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aagacagcta tcgcgattgc agtg
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<223> primer leadB
<400> 16
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ggccatggct ggttgggcag c
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<211> 41
<212> DNA
<213> Artificial Sequence
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<223> primer RSC-F
<400> 17
gaggaggagg aggaggaggc ggggcccagg cggccgagct c
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<211> 21
<212> DNA
<213> Artificial Sequence
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<223> primer lead-B
<400> 18
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ggccatggct ggttgggcag c
<210> 19
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<213> Homo sapiens
<400> 19
Thr His Ser Arg Ala Asp Arg Arg Glu
  1
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<210> 20
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<223> inversed RAD motif peptide
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Val Val Cys Asp Ala Arg Arg Cys
<210> 21
<211> 9
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<223> inversed RAD motif peptide
<400> 21
Thr His Ser Asp Ala Arg Arg Glu
  1
<210> 22
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Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser,
Thr, Val, Trp, Tyr
<400> 22
Xaa Xaa Xaa Arg Ala Asp Xaa Xaa
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<223> RAD motif peptide
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Cys Arg Ala Asp Val Pro Leu Cys
<210> 24
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<212> PRT
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<223> RAD motif peptide
<400> 24
Cys Met Ser Arg Ala Asp Arg Pro Cys
  1
<210> 25
<211> 16
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<223> CDR consensus part
<400> 25
Val Arg Val Val Cys Arg Ala Asp Lys Arg Cys Tyr Ala Met Asp
                                                           15
                                      10
  1
Val
<210> 26
<211> 16
<212> PRT
<213> Artificial Sequence
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<223> CDR consensus part
<400> 26
Val Arg Val Trp Cys Arg Ala Asp Arg Arg Cys Tyr Ala Met Asp
                                      10
  1
Val
<210> 27
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CDR consensus part
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<400> 23

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<400> 27
Val Arg Val Trp Cys Arg Ala Asp Lys Arg Cys Tyr Ala Met Asp
                                                           15
  1
                                      10
Val
<210> 28
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CDR consensus part
<400> 28
Val Gly Val Val Cys Arg Ala Asp Arg Arg Cys Tyr Ala Met Asp
  1
                                                           15
                                      10
Val
<210> 29
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CDR consensus part
<400> 29
Val Gly Val Val Cys Arg Ala Asp Lys Arg Cys Tyr Ala Met Asp
                                      10
Val
<210> 30
<211> 16
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<223> CDR consensus part
<400> 30
Val Gly Val Trp Cys Arg Ala Asp Arg Arg Cys Tyr Ala Met Asp
                                      10
                                                           15
Val
<210> 31
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<212> PRT
<213> Artificial Sequence
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<220>
<223> CDR consensus part
<400> 31
Val Gly Val Trp Cys Arg Ala Asp Lys Arg Cys Tyr Ala Met Asp
                                      10
                                                           15
Val
<210> 32
<211> 118
<212> PRT
<213> Homo sapiens
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<223> RAD87 part
<400> 32
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
                                      10
                                                           15
Gly Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser
                 20
                                      25
                                                           30
Ser Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                 35
                                      40
                                                           45
Glu Trp Val Ser Ala Ile Gly Thr Gly Gly Gly Thr Tyr Ala
                                      55
                 50
                                                           60
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
                 65
                                      70
                                                           75
Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr
                                      85
                 80
                                                           90
Ala Val Tyr Tyr Cys Ala Arg Val Arg Val Val Cys Arg Ala Asp
                                                          105
Arg Arg Cys Tyr Ala Met Asp Val Trp Gly Gln Gly Thr
                110
                                     115
<210> 33
<211> 118
<212> PRT
<213> Homo sapiens
<220>
<223> RAD9 part
<400> 33
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
  1
Gly Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser
                                                           30
Ser Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                 35
                                                           45
Glu Trp Val Ser Ala Ile Gly Thr Gly Gly Gly Thr Tyr Tyr Ala
                 50
                                                           60
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
```

70

75

Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr 80 85 90
Ala Val Tyr Tyr Cys Ala Arg Val Arg Val Val Cys Arg Ala Asp 95
Arg Arg Cys Tyr Ala Met Asp Val Trp Gly Gln Gly Thr 110 115

<210> 34
<211> 118
<212> PRT
<213> Homo sapiens
<220>
<223> RAD12 part

<400> 34

Glu Val Gln Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser Ser Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ala Ile Gly Thr Gly Gly Gly Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Val Arg Val Cys Arg Ala Asp Arg Arg Cys Tyr Ala Met Asp Val Trp Gly Gln Gly Thr

<210> 35
<211> 118
<212> PRT
<213> Homo sapiens
<220>
<223> RAD34 part

<400> 35

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80
                                      85
                                                           90
Ala Val Tyr Tyr Cys Ala Arg Val Arg Val Cys Arg Ala Asp
                                     100
                                                          105
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Arg Arg Cys Tyr Ala Met Asp Val Trp Gly Gln Gly Thr
                                     115
                110
<210> 36
<211> 118
<212> PRT
<213> Homo sapiens
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<223> RAD3 part
<400> 36
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
                                                           15
Gly Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser
                                                           30
                                      25
                 20
Ser Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                 35
                                                           45
Glu Trp Val Ser Ala Ile Gly Thr Gly Gly Gly Thr Tyr Tyr Ala
                                                           60
                 50
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
                                      70
                                                           75
                 65
Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr
                                      85
                                                           90
                 80
Ala Val Tyr Tyr Cys Ala Arg Val Arg Val Val Cys Arg Ala Asp
                                                          105
                 95
                                     100
Arg Arg Cys Tyr Ala Met Asp Val Trp Gly Gln Gly Thr
                                     115
                110
<210> 37
<211> 118
<212> PRT
<213> Homo sapiens
<220>
<223> RAD32 part
<400> 37
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val His Pro Gly
Gly Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser
Ser Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                                                           45
Glu Trp Val Ser Ala Ile Gly Thr Gly Gly Gly Thr Tyr Tyr Ala
                  50
                                                           60
Asp Ser Val Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Gln
                                                           75
                  65
Ser Thr Ala Tyr Leu Gln Ile Asn Ser Leu Arg Ala Glu Asp Thr
```

80

```
95
                                      100
                                                          105
Lys Arg Cys Tyr Ala Met Asp Val Trp Gly Gln Gly Thr
                110
                                     115
<210> 38
<211> 118
<212> PRT
<213> Homo sapiens
<220>
<223> RAD88 part
<400> 38
Glu Val Gln Leu Glu Ser Gly Gly Gly Leu Val His Pro Gly
                                                           15
Gly Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser
                  20
                                                           30
                                      25
Ser Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                  35
                                                           45
Glu Trp Val Ser Ala Ile Gly Thr Gly Gly Gly Thr Tyr Tyr Ala
                  50
                                      55
                                                           60
Asp Ser Val Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Gln
                 65
                                      70
                                                           75
Ser Thr Ala Tyr Leu Gln Ile Asn Ser Leu Arg Ala Glu Asp Thr
                 80
                                      85
                                                           90
Ala Val Tyr Tyr Cys Ala Arg Val Gly Val Trp Cys Arg Ala Asp
                  95
                                     100
                                                          105
Lys Arg Cys Tyr Ala Met Asp Val Trp Gly Gln Gly Thr
                110
                                     115
<210> 39
<211> 119
<212> PRT
<213> Homo sapiens
<220>
<223> RAD1 part
<400> 39
Glu Val Gln Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
                                      25
Phe Tyr Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                 35
Glu Trp Val Ser Gly Val Ser Ser Ser Gly Ile Thr Thr Tyr Tyr
                 50
Ala Ala Ser Val Arg Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser
                 65
                                                           75
Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
                 80
                                      85
                                                           90
```

Thr Ala Val Tyr Tyr Cys Ala Arg Val Arg Thr His Ser Arg Ala

Ala Val Tyr Tyr Cys Ala Arg Val Gly Val Trp Cys Arg Ala Asp

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95
                                      100
                                                           105
Asp Arg Arg Glu Tyr Ala Met Asp Val Trp Gly Gln Gly Thr
                110
                                      115
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<211> 3
<212> PRT
<213> Homo sapiens
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<223> RGD motif
<400> 40
Arg Gly Asp
<210> 41
<211> 3
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<213> Artificial Sequence
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<223> RAD motif
<400> 41
Arg Ala Asp
  1
<210> 42
<211> 3
<212> PRT
<213> Mus musculus
<220>
<223> RYD motif
<400> 42
Arg Tyr Asp
<210> 43
<211> 9
<212> PRT
<213> Homo sapiens
<220>
<223> RAD1 part
<400> 43
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1
<210> 44
<211> 9
<212> PRT
<213> Homo sapiens
<220>
<223> RAD3 part
<400> 44
Val Val Cys Arg Ala Asp Arg Cys
 1
<210> 45
<211> 9
<212> PRT
<213> Homo sapiens
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<223> RAD4 part
<400> 45
Val Trp Cys Arg Ala Asp Arg Cys
  1
<210> 46
<211> 9
<212> PRT
<213> Homo sapiens
<220>
<223> RAD9 part
<400> 46
Val Val Cys Arg Ala Asp Arg Arg Cys
<210> 47
<211> 9
<212> PRT
<213> Homo sapiens
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<223> RAD11 part
<400> 47
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Val Trp Cys Arg Ala Asp Arg Arg Cys

Thr His Ser Arg Ala Asp Arg Arg Glu

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<210> 48
<211> 9
<212> PRT
<213> Homo sapiens
<220>
<223> RAD12 part
<400> 48
Val Val Cys Arg Ala Asp Arg Cys
<210> 49
<211> 9
<212> PRT
<213> Homo sapiens
<220>
<223> RAD32 part
<400> 49
Val Trp Cys Arg Ala Asp Lys Arg Cys
  1
<210> 50
<211> 9
<212> PRT
<213> Homo sapiens
<220>
<223> RAD34 part
<400> 50
Val Val Cys Arg Ala Asp Arg Arg Cys
<210> 51
<211> 9
<212> PRT
<213> Homo sapiens
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<223> RAD87 part
<400> 51
Val Val Cys Arg Ala Asp Arg Arg Cys
  1
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<210> 52
<211> 9
<212> PRT
<213> Homo sapiens
<220>
<223> RAD88 part
<400> 52
Val Trp Cys Arg Ala Asp Lys Arg Cys
<210> 53
<211> 18
<212> PRT
<213> Homo sapiens
<220>
<223> Anti-gp120 Fab part
<400> 53
Val Gly Pro Tyr Ser Trp Asp Asp Ser Pro Asp Gln Asn Tyr Tyr
                                      10
                                                           15
                  5
 1
Met Asp Val
<210> 54
<211> 18
<212> PRT
<213> Homo sapiens
<220>
<223> Synthetic Construct
<220>
<221> VARIANT
<222> (4,5,6,10,11,12)
<223> Fab library part; Ala, Cys, Asp, Glu, Phe, Gly, His, Ile,
Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, Tyr
<400> 54
Val Gly Cys Xaa Xaa Xaa Arg Gly Asp Xaa Xaa Xaa Cys Tyr Tyr
                                                           15
                                      10
 1
Met Asp Val
<210> 55
<211> 18
<212> PRT
<213> Homo sapiens
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<220>
<223> Fab-4 part
<400> 55
Val Gly Cys Thr Gly Gln Arg Gly Asp Trp Arg Ser Cys Tyr Tyr
                                                            15
                                      10
 1
Met Asp Val
<210> 56
<211> 18
<212> PRT
<213> Homo sapiens
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<223> Fab-7 part
<400> 56
Val Gly Cys Thr Tyr Gly Arg Gly Asp Thr Arg Asn Cys Tyr Tyr
                                                            15
  1
                                       10
Met Asp Val
<210> 57
<211> 18
<212> PRT
<213> Homo sapiens
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<223> Fab-8 part
<400> 57
Val Gly Cys Pro Ile Pro Arg Gly Asp Trp Arg Glu Cys Tyr Tyr
                                                            15
                                       10
  1
Met Asp Val
<210> 58
<211> 18
<212> PRT
<213> Homo sapiens
<220>
<223> Fab-9 part
<400> 58
Val Gly Cys Ser Phe Gly Arg Gly Asp Ile Arg Asn Cys Tyr Tyr
                                       10
                                                            15
  1
Met Asp Val
<210> 59
<211> 18
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<212> PRT
<213> Homo sapiens
<220>
<223> Fab-10 part
<400> 59
Val Gly Cys Thr Trp Gly Arg Gly Asp Glu Arg Asn Cys Tyr Tyr
                                                           15
                                      10
  1
Met Asp Val
<210> 60
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<213> Homo sapiens
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<221> VARIANT
<222> (7,8,9,10)
<223> MTF library part; Ala, Cys, Asp, Glu, Phe, Gly, His,
Ile, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, Tyr
<400> 60
Val Gly Cys Ser Phe Gly Xaa Xaa Xaa Xaa Arg Asn Cys Tyr Tyr
                                       10
                                                           15
  1
                   5
Met Asp Val
<210> 61
<211> 18
<212> PRT
<213> Homo sapiens
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<223> MTF-2 part
<400> 61
Val Gly Cys Ser Phe Gly Arg Thr Asp Gln Arg Ile Cys Tyr Tyr
                                       10
                                                            15
Met Asp Val
<210> 62
<211> 18
<212> PRT
<213> Homo sapiens
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<223> MTF-10 part
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Val Gly Cys Ser Phe Gly Lys Gly Asp Asn Arg Ile Cys Tyr Tyr
  1
                                       10
                                                            15
                  5
Met Asp Val
<210> 63
<211> 18
<212> PRT
<213> Homo sapiens
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<223> MTF-32 part
<400> 63
Val Gly Cys Ser Phe Gly Arg Arg Asn Glu Arg Asn Cys Tyr Tyr
                                       10
                                                            15
  1
Met Asp Val
<210> 64
<211> 18
<212> PRT
<213> Homo sapiens
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<223> MTF-40 part
<400> 64
Val Gly Cys Ser Phe Gly Arg Asn Asp Ser Arg Asn Cys Tyr Tyr
                                       10
                                                            15
  1
Met Asp Val
<210> 65
<211> 18
<212> PRT
<213> Homo sapiens
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<223> MTF-1 part
<400> 65
Val Gly Cys Ser Phe Gly Arg Val Asp Asp Arg Asn Cys Tyr Tyr
                                       10
Met Asp Val
<210> 66
<211> 18
<212> PRT
<213> Homo sapiens
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<400> 62

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<220>
<223> MTF-12 part
<400> 66
Val Gly Cys Ser Phe Gly Arg Ala Asp Arg Arg Asn Cys Tyr Tyr
                                                            15
                                      10
 1
Met Asp Val
<210> 67
<211> 18
<212> PRT
<213> Homo sapiens
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<223> MTF-15 part
<400> 67
Val Gly Cys Ser Phe Gly Arg Ser Val Asp Arg Asn Cys Tyr Tyr
                                                            15
  1
                                       10
Met Asp Val
<210> 68
<211> 18
<212> PRT
<213> Homo sapiens
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<223> MTF-7 part
<400> 68
Val Gly Cys Ser Phe Gly Lys Arg Asp Met Arg Asn Cys Tyr Tyr
                                       10
  1
Met Asp Val
<210> 69
<211> 18
<212> PRT
<213> Homo sapiens
<220>
<223> MTF-13 part
<400> 69
Val Gly Cys Ser Phe Gly Arg Trp Asp Ala Arg Asn Cys Tyr Tyr
                                       10
                                                            15
  1
Met Asp Val
<210> 70
<211> 18
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<212> PRT
<213> Homo sapiens
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<223> MTF-14 part
<400> 70
Val Gly Cys Ser Phe Gly Arg Gln Asp Val Arg Asn Cys Tyr Tyr
                                      10
  1
Met Asp Val
<210> 71
<211> 18
<212> PRT
<213> Homo sapiens
<220>
<223> MTF-20 part
<400> 71
Val Gly Cys Ser Phe Gly Arg Asp Asp Gly Arg Asn Cys Tyr Tyr
                  5
                                      10
                                                           15
  1
Met Asp Val
<210> 72
<211> 16
<212> PRT
<213> Homo sapiens
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<223> Synthetic Construct
<220>
<221> VARIANT
<222> (3,4,5,9,10,11)
<223> RAD library part; Ala, Cys, Asp, Glu, Phe, Gly, His, Ile,
Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, Tyr
<400> 72
Val Arg Xaa Xaa Xaa Arg Ala Asp Xaa Xaa Xaa Tyr Ala Met Asp
                                      10
Val
<210> 73
<211> 16
<212> PRT
<213> Homo sapiens
<220>
<223> RAD1 part
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```
Val Arg Thr His Ser Arg Ala Asp Arg Arg Gly Tyr Ala Met Asp
                                                           15
  1
                  5
                                      10
Val
<210> 74
<211> 16
<212> PRT
<213> Homo sapiens
<220>
<223> RAD3 part, RAD9 part, RAD12 part, and RAD34 part
<400> 74
Val Arg Val Val Cys Arg Ala Asp Arg Arg Cys Tyr Ala Met Asp
  1
                                      10
                                                           15
Val
<210> 75
<211> 16
<212> PRT
<213> Homo sapiens
<220>
<223> RAD4 part and RAD11 part
<400> 75
Val Gly Val Trp Cys Arg Ala Asp Arg Arg Cys Tyr Ala Met Asp
                                       10
Val
<210> 76
<211> 16
<212> PRT
<213> Homo sapiens
<220>
<223> RAD32 part
<400> 76
Val Gly Val Trp Cys Arg Ala Asp Lys Arg Cys Tyr Ala Met Asp
                                       10
Val
<210> 77
<211> 16
<212> PRT
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<400> 73

<213> Homo sapiens

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<220>
<223> RAD87 part
<400> 77
Val Gly Val Val Cys Arg Ala Asp Arg Arg Cys Tyr Ala Met Asp
 1
                  5
                                      10
                                                           15
Val
<210> 78
<211> 16
<212> PRT
<213> Homo sapiens
<220>
<223> RAD88 part
<400> 78
Val Arg Val Trp Cys Arg Ala Asp Lys Arg Cys Tyr Ala Met Asp
  1
                                      10
                                                           15
```

Val

f*